

FLOW MAGAZINE

INDEX OF FEATURE ARTICLES 1954

For quick reference, all articles which appeared in FLOW Magazine during 1954 have been classified in two sections — by subject matter, and by type of principal equipment discussed.



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- "Industry and Colleges Combine to
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- "Significant Developments of 1953" Jan. p. 73
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- "Windrow Loader--loose Bulk Handler" Dec. p. 71
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- "Reorganization Through Radio" May p. 90
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- "The Department of 'Physical Distribution'" Apr. p. 67
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- "Beech-Nut Saves \$30,000 Annually" Aug. p. 83
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- "Callao" Aug. p. 86
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PACKAGING AND SHIPPING SECTION ARTICLES

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Announcement of award winners by Fibre Box Assn.	
"Material Handling, a Big Feature at The Exposition"	May p. 136
Report on proceedings and exhibits at the 23rd National Packaging Exposition.	

ASSOCIATION AFFAIRS AND EXHIBITIONS (Con't)

- "National Packaging Conference and Exposition" Apr. p. 137
List of exhibitors and pre-show information.
- "9th Industrial Packaging and Material Handling Exposition" Sept. p. 134
List of exhibitors and pre-show information
- "Report on the SIPMHE Exposition" Nov. p. 138
Every exhibit described...three outstanding talks, on cost control published from the short course prize-winning containers illustrated and described.

CLOSING AND UNITIZING

- "Four-Step Rope Packaging" Aug. p. 103
Special air-operated closing units at Columbian Wire Rope Co. have cut costs of rope packaging.
- "Gentle 'Flip-Flop'" Apr. p. 134
Unique device used by Olympic Radio & Television, Inc., to up-end packages for bottom sealing. Annual savings reported to be \$24,000.
- "Important Aid to Packaging" May p. 142
Pointers for selection and proper use of gummed tape.
- "Low-Cost Brick Package" Dec. p. 118
A steel-strapped unit load and a hand truck with adjustable forks have resulted in big savings for Streater Brick Co.
- "Selection Guide for Standard Strapping Tools" June p. 118
The first article ever published to categorize strapping tools by type and by use.
- "Taping Different Size Units" July p. 108
Automatic machine is used by Bristol Myers for high-speed combining of regular and free-trial-size packages into a 'deal'.

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- "Unitized Cargo-Handling Methods" Nov. p. 148
Three methods at Alaska Steamship
Co. resulted in 60% safer and three-
times-faster handling and shipping.
- "What the Purchasing Agent Should
Know About Stitching and Stapling Equipment" Mar. p. 103
Complete discussion of types of machines
available and for what they can be used.

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- "Automatic Caser for Gable-Top Cartons" Aug. p. 108
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realize benefits of Automatic
casing of gable-top milk cartons.
- "Bags Ensure Sweet Corn" Aug. p. 106
High speed method of filling iced
bags keeps sugar in corn from turning
to starch.
- "Coordinated Flow--'Secret' of Success" Dec. p. 114
Discussion of considerations necessary
to achieve successful canning operations.
- "Efficient Multi-Story Bottling" July p. 118
More than 50 receiving, shipping,
packaging and storing operations are
co-ordinated at Blatz Brewing Co.
- "Found: More Floor Space" Sept. p. 137
Through a new corrugated container
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able to reduce considerably the space
and time formerly required for nail-
packaging.
- "Mechanized Pre-Packaging of Fresh Produce" Aug. p. 104
Robert G. White, President of R. G.
White Engineering Co. discusses
factors to consider in designing
food packaging lines.
- "Packaging Requires Handling Know-How" Apr. p. 121
Focuses attention on importance of
care in planning special handling
operations which transfer products
into containers.

FILLING (Con't)

- "67% Less Packaging and Handling Time" June p. 130
North American Aviation uses one
machine for many sizes, shapes and
quantities of small parts.
- "Triple-Duty Container" Nov. p. 164
Wirebound crate serves as work
carrier, in process storage
container and shipping container.

INTERIOR PACKAGE DESIGN

- "Liquids Shipped in Fibre Drums" Jan. p. 104
Rohm & Haas eliminated high
costs of old method of shipping
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- "Nomogram for Solving Cushioning
Problems" Aug. p. 110
A simple method of selecting
type and thickness of cushioning
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how to use it.
- "Protecting Against Shock and Vibration" Oct. p. 140
Nine proven methods of preparing
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- "Protective Packaging...Important to
Safe Handling" Apr. p. 129
Three basic ways in which protective
packaging does its job.
- "Safe Package for \$1,200 TV Tubes" Feb. p. 111
Diamond Power Specialty Corp.
uses corrugated containers,
rubberized hair cushioning, and
die-cut braces to protect tubes
in transit.
- "Weapons for the Battle Against Moisture" Oct. p. 144
Thorough discussion of moisture
problems and methods of combating
them.

MARKING

- "A New Idea for Efficiency in Warehousing and Shipping" Jan. p. 100
Closely co-ordinated system of bill of lading and invoice preparation, scheduling, order filling, marking and loading of vehicles at Johnson & Johnson.
- "Proper Packaging is a Factor in Efficient Handling" Apr. p. 125
Standardized labels resulted in substantial savings in in-and-out warehouse handling at Behr-Manning Corp.
- "Six-Times Faster Marking" Feb. p. 118
Waldes-Kohinoor, Inc., saves 81.48% of time formerly required to address every six packages shipped.

MILITARY PACKAGING

- "Are Military Packaging Standards Wasting Money?" May p. 131
Capt. C. A. Blick, SC, USN, tells "Why" of high military standards.
- "Nomogram for Solving Cushioning Problems" Aug. p. 110
A significant development by Container Laboratories, Inc. for Bureau of Ordnance, Naval Ordnance Lab., Dept. of the Navy.
- "What's Ahead for Package Testing Techniques" Sept. p. 147
E. H. Borkenhagen of Rossford Ordnance Depot discusses three problems confronting container testing engineers.

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- "9½ Tons Less Tare Weight = \$20,300." Mar. p. 107
Results of a change in packaging method for cotton picking machines made by International Harvester Co.

PACKAGE DESIGN (Con't)

- "Packaging Engineering...Its Application
Its Possibilities" July p. 111
I. R. Hogancamp, Western Electric Co.,
discusses packaging at his company.
- "Packaging Engineering Aids Efficiency" May p. 139
John W. Kraus, Thompson Products Co.,
discusses effect of packaging on ware-
housing, handling on dock and in
production, inter-plant transportation
and all activities related to packaging.
- "Packaging is More Than Skin Deep" Apr. p. 119
Group of three articles discussing
material handling knowledge required
by the packaging engineer.
- "Storing Nails and Screws in 25% Less Space" Mar. p. 119
Results of a new corrugated shipping
container used by Western Automatic
Screw Co.
- "You Pay for Damage Insurance" Oct. p. 132
Alvin S. Roberts, Insurance Co. of
North America, discusses tangible
and intangible costs which result
from poor packaging.

PACKAGING DEPARTMENT OPERATIONS

- "Efficient Multi-Story Bottling" July p. 118
More than 50 operations are
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- "Found: More Floor Space" Sept. p. 137
It was like finding 75% more floor
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put into operation a new system for
packaging nails in corrugated boxes.
- "Humidity Conditioning Aids Packaging" Mar. p. 110
Moisture-sensitive packaging materials
are protected by de-humidifying equipment
at Milprint, Inc.
- "Mechanized Pre-Packaging of Fresh Produce" Aug. p. 104
Robert G. White discusses factors
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PACKAGING DEPARTMENT OPERATIONS (Con't)

- "Packaging Requires Handling Know-How" Apr. p. 121
Focuses attention on the importance
of planning carefully the specific
handling operations which transfer
products into containers.
- "Punch Card Control of Pre-Packaging
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How Yale & Towne insured success for
a new service parts department.
- "When is an Automatic Pallet Loader
Justified?" Dec. p. 120
Not all packagers can use an automatic
pallet loader economically. Here are
formulas for determining the economical
break-even point for using the machines
in any plant.

TESTING PACKAGES

- "An engineering Approach to Shock
and Vibration" Oct. p. 137
Test Methods used by Engineer
and Development Laboratories,
Corps. of Engineers, U.S. Army.
Written by F. Stowell, H. C. Pusey,
K. M. Carr.
- "How Much Vibration Can Your Packages Take?" Feb. p. 113
Constant vibrations resulting from
car wheels striking rail joints,
rough highways, etc., can result
in expensive damage. Vibration
testing machines and how to use
them in combating vibration are
discussed in this article.
- "Vector Nomograph Helps Simplify Study
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- "What's Ahead for Package Testing Techniques" Sept. p. 147
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- "Equipment for Rain-or-Shine Loading" Jan. p. 108
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- "'Fish Net' Simplifies LTL Problems" May p. 129
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- "How to Load Trucks from Ground Level" Sept. p. 144
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- "Piggy Back..A Progress Report" Feb. p. 117
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- "Unitized Shipping of Odd Shapes" July p. 116
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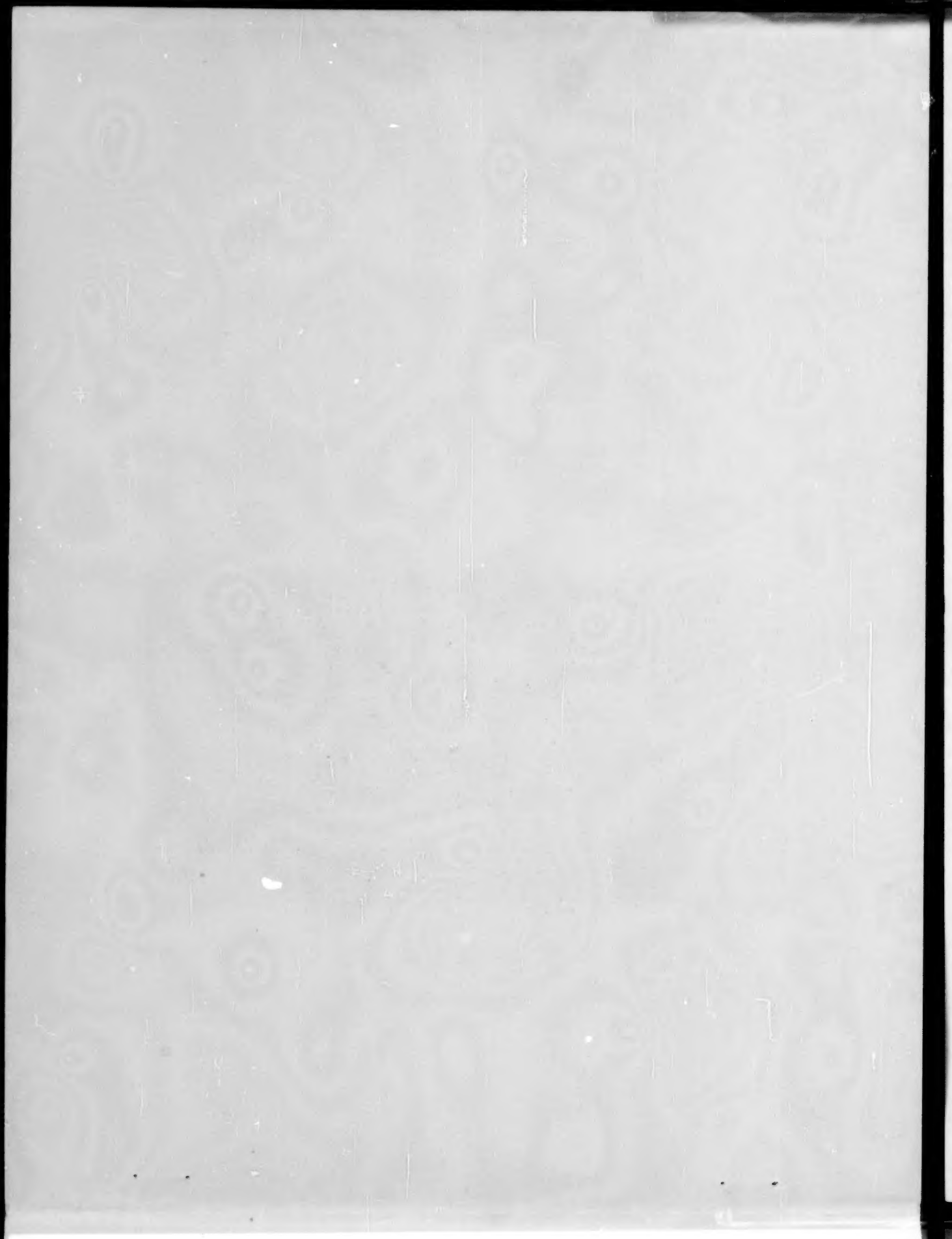
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"LP-Gas Conversions Lower Operating Cost 40%, Maintenance 50%"	Nov.	p.	74
"Pros and Cons of Equipment Leasing"	Mar.	p.	69
"Training for Greater Safety ... Lower Maintenance"	June	p.	72

PACKAGING AND SHIPPING SECTION ARTICLES

CLASSIFICATION BY SUBJECT

ASSOCIATION AFFAIRS AND EXHIBITIONS

"Exposition Review"	Nov.	p.	124
Brief descriptions of outstanding products shown in each of the exhibits at the 10th National Industrial Packaging and Material Handling Exposition.			
"National Packaging Exposition"	Apr.	p.	134
List of exhibitors and floor plan of exposition hall.			
"Outstanding Fibre Containers"	June	p.	140
Entries in the 1955 Fibre Box Exhibit.			
"Planning the Tenth SIPMHE Exposition"	June	p.	126
Committee chairmen selected and final plans formulated.			
"Prize-Winning Packages - 1955"	Nov.	p.	118
Winners of the 1955 National Protective Packaging and Material Handling Competition.			
"SIPMHE Elects National Officers"	Oct.	p.	116
List of Officers for 1956-57.			
"SIPMHE Show"	Sept.	p.	160
The Science of Packaging, main theme for show.			
"The SIPMHE Short Course"	Nov.	p.	110
Abstracts of some of the significant papers presented at the SIPMHE Exposition.			
"Use of Pallets"	July	p.	108
A Talk given by William H. Sardo, Jr., of the National Wooden Pallet Manufacturers' Association at the National Material Handling Exposition.			

CLOSING AND UNITIZING

- "Automatic Bundle Tying" Aug. p. 108
How the Milwaukee Journal stepped up
mail room operations.
- "High-Speed Stapling Operation" Aug. p. 106
Fast, economical closures have brought
about profitable and effective innovations
in shipping rooms.
- "On-The-Job Unitizing" Apr. p. 132
Flooring contractor reduces handling
and eliminates pilferage.
- "Strapping Cart Speeds Packaging" Nov. p. 116
Special strapping cart eliminates the
lifting of cartons to slip strapping
underneath.
- "Unitizing Method for Heavy Rolls" July p. 106
Protective measures for packaging and
shipping aluminum foil.
- "Unitizing System for Soft Goods" Feb. p. 122
Baling press used by Fisher-Norwalk
to produce unit loads of soft goods.

FILLING

- "Packaging 40,000 Units per Minute" Feb. p. 124
Three automatic machines and a well-timed
conveyor package 10,000 cigarettes in 15
seconds.
- " 'Quick Delivery' ... Vital Sales Tool" Jan. p. 100
Speed in filling and delivering orders is
important in almost any phase of industry.
- "Remote Weighing for Better Handling" Feb. p. 126
The propellant for pressurized cans must
be handled out of tank cars, into and out
of storage tanks, and into containers.
Close control is required to prevent costly
leakage and evaporation losses.

INTERIOR PACKAGA DESIGN

- "A Package for Every Need" Oct. p. 114
Various methods of packaging automatic
welding wire developed by the Page Steel
and Wire Division of American Chain &
Cable Company.
- "Simple Carton for Complex Job" Dec. p. 114
Simple, inner-pack sections used to solve
complex packaging problem.

MILITARY PACKAGING

- "Double-Duty Containers Designed for the
Air Age" June p. 120
How the Air Force saves with reusable,
modular containers.
- "The Military Distribution Puzzle" May p. 184
New equipment and procedures being
developed by the Transportation Corps
to insure rapid movement of materials
and men.

PACKAGE DESIGN

- "Compression Packing Fibrous Material" Apr. p. 120
Multiwall paper sacks used to package
asbestos fibers.
- "Food-Type Cans Cut Costs in Industrial
Applications" Mar. p. 144
A new packaging method using tin-lined
steel cans.
- "Home-Made' Box Making System" Feb. p. 128
TEMCO Aircraft Corporation develops a
system for making its own cartons.
- "King-Size Containers" July p. 112
Synthetic rubber containers for shipping
bulk products.

PACKAGE DESIGN (Cont.)

- "Packages Geared to Continuous Production" May p. 176
Forthcoming developments in cities,
industries, and transportation will
require improvements in packaging and
shipping containers.
- "Packaging, Warehousing and Shipping Savings" June p. 130
Corrugated cartons for stainless steel
conveyor screws produced time-and space-
savings.
- " 'Peep-Hole' Carton" Mar. p. 140
A new carton developed to allow quick
inspection or adjustment of material
inside.
- "Protection for Heavy Unit" Dec. p. 108
Corrugated boxes used to protect house-
hold water pumps.
- "Rigid Specs Fight Tarnish" Oct. p. 110
Packaging materials may not exceed the
sulphur limit of .0008 percent.
- "Shipping Live Fish in Corrugated Boxes" July p. 110
Polyethylene-lined corrugated boxes
replace tins for shipping fish alive.

PACKAGING DEPARTMENT OPERATIONS

- "Better Package = Better Handling" Aug. p. 112
More efficient handling and better use
of warehouse space by stacking tubes of
carpet yarn directly on wood pallets.
- "Continuous Flow in Packaging and Shipping". July p. 102
How a conveyor system saves manhours by
reducing handling operations.
- "Efficient Handling of Small Shipments". Aug. p. 103
Recommendations for cutting over-all
distribution costs for small shipments.
- "80% Reduction in Cost of Handling" Oct. p. 108
Packaging bricks into steep-strapped
loads.

PACKAGING DEPARTMENT OPERATIONS (Cont.)

"Good Handling Improves Packaging"	July	p.	104
Aircraft Radio puts a machine handling unit on a special packing line.			
"Heavy but Fragile"	Aug.	p.	110
Protecting large, porcelain enamel-ware during shipment.			
"Packaging for Automation"	Dec.	p.	110
Automatic belting of fixed resistors and capacitors on narrow belts of pressure-sensitive tape is helping the Allen-Bradley Company to keep pace with the growing demand for automation in the electronics industry.			
"Packaging Room ... 1965"	May	p.	172
A tour through the packaging room of the future.			
"Production-Line Small Parts Packaging".	Oct.	p.	112
A plastic coating is used to protect and identify connectors.			
"Profitable Handling of Small Orders"	Jan.	p.	104
New profits await the wholesaler who is willing to redesign his handling methods.			
"Unit Loads for Export Shipments"	Jan.	p.	110
Packaging time reduced 50% by Congoleum-Nairn.			

PACKAGING SPECIFICATIONS

"Application of Industrial Logistics"	Oct.	p.	104
The art or operations required in the preparation of goods for packing, marking, shipment, storage and delivery to consumer.			
"Packaging Engineering ... Part of 'Industrial Logistics' "	Sept.	p.	146
The relationship between packaging engineering and material handling.			
"Preparing Shipments for Air Freight"	June	p.	116
Some factors to consider when shipping by air.			

PACKAGING SPECIFICATIONS (Cont.)

- "Product Safety ... a Function of Packaging" Dec. p. 104
What causes damage in transit and how to protect against it.
- "Standardized Packaging Benefits Everyone" Apr. p. 126
Rola Corporation's standardized packaging program pays off.
- "The Field of 'Packaging Material Handling' " Sept. p. 154
Charles H. Pearce describes the cycle it encompasses.
- "What Is a Packaging Engineer? " Sept. p. 141
Earl B. Candell, president of SIPMHE gives the answer.
- "What is the Government Doing About Package Standardization? " Apr. p. 122
Activities of three agencies in obtaining Standards.

TESTING PACKAGES

- "Container Seals and Shock Mitigation Methods" Mar. p. 134
Testing procedures used by Sandia Corp., and their results.
- "Testing Plastic Packages" Nov. p. 120
Aims of Bakelite's new experimental packaging laboratory.

VEHICLE LOADING

- "Air Freight Too Costly?" June p. 122
Actually, it can be used to cut distribution costs.
- "Anyone Can Have a Loading Dock" Jan. p. 108
Lack of adequate loading dock facilities need no longer be a problem.
- "New Idea in 'Piggy-Back' " Mar. p. 142
Trucks, trailers and flat cars can be adapted for hauling vans.

VEHICLE LOADING (Cont.)

"Production-Line Methods for Shipping"	May	p.	178
The plant of the future will require high-speed, smooth-moving distribution methods.			
"Radar Protects Shipments"	Feb.	p.	118
An electronic device developed for directing guided missiles now directs freight cars.			
"Special Cars Cut In-Transit Damages"	Oct.	p.	102
How built-in bulkheading results in lower shipping costs.			
"The Safety-Efficiency Ratio in Cargo Handling"	Dec.	p.	102
How United Air Lines improved their S-E Ratio.			

CLASSIFICATION BY EQUIPMENT

CLOSURE AND UNITIZING EQUIPMENT AND SUPPLIES

"Automatic Bundle Tying"	Aug.	p.	108
"High-Speed Stapling Operation"	Aug.	p.	106
"On-The-Job Unitizing"	Apr.	p.	132
"Strapping Cart Speeds Packaging"	Nov.	p.	116
"Unitizing Method for Heavy Rolls"	July	p.	106
"Unitizing System for Soft Goods"	Feb.	p.	122

CUSHIONING AND BRACING MATERIALS

"Protection for Heavy Unit"	Dec.	p.	108
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DOCK ACCESSORIES AND VEHICLE LOADING DEVICES

"Anyone Can Have a Loading Dock"	Jan.	p.	108
"New Idea in 'Piggy-Back' "	Mar.	p.	142

DOCK ACCESSORIES AND VEHICLE LOADING DEVICES (Cont.)

"Production-Line Methods for Shipping"	May	p.	178
"Radar Protects Shipments".	Feb.	p.	118
"Special Cars Cut In-Transit Damages"	Oct.	p.	102
"The Military Distribution Puzzle".	May	p.	184
"The Safety-Efficiency Ratio in Cargo Handling"	Dec.	p.	102

INSTRUMENTS AND TESTING DEVICES

"Container Seals and Shock Mitigation Method"	Mar.	p.	134
"Testing Plastic Packages".	Nov.	p.	120

MARKING AND LABELING EQUIPMENT AND SUPPLIES

"Production-Line Small Parts Packaging".	Oct.	p.	112
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PACKAGING MACHINERY

"Automatic Bundle Tying".	Aug.	p.	108
"Continuous Flow in Packaging and Shipping"	July	p.	102
" 'Home-Made' Box Making System".	Feb.	p.	128
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"Packaging for Automation".	Dec.	p.	110
"Packaging 40,000 Units per Minute!"	Feb.	p.	124
"Packaging Room ... 1965".	May	p.	172
" 'Quick Delivery' ... Vital Sales Tool"	Jan.	p.	100
"Remote Weighing for Better Handling".	Feb.	p.	126

SHIPPING CONTAINERS

"A Package for Every Need"	Oct.	p.	114
"Better Package = Better Handling".	Aug.	p.	112
"Compression Packing Fibrous Material"	Apr.	p.	120
"Double-Duty Containers Designed for the Air Age"	June	p.	120
"80% Reduction in Cost of Handling"	Oct.	p.	108
"Food-Type Cans Cut Costs in Industrial Applications"	Mar.	p.	144
"King-Size Containers"	July	p.	112
"Outstanding Fibre Containers".	June	p.	140
"Packaging, Warehousing and Shipping Savings"	June	p.	130
" 'Peep-Hole' Carton".	Mar.	p.	140
"Prize-Winning Packages - 1955".	Nov.	p.	118
"Profitable Handling of Small Orders".	Jan.	p.	104
"Rigid Specs Fight Tarnish"	Oct.	p.	110
"Shipping Live Fish in Corrugated Boxes"	July	p.	110
"Simple Carton for Complex Job".	Dec.	p.	114
"Standardized Packaging Benefits Everyone".	Apr.	p.	126
"Unit Loads for Export Shipments"	Jan.	p.	110
"Use of Pallets"	July	p.	108